



CLAIMS

1. A method to obtain perfluorocarbonate polymers that contain fluorosulphonyl functional groups and that have structural formula (I):

-[CF₂-CF₂]m-[CF₂-CF]n
O-[CF₂-CF-O]k- [CF₂]i -SO₂F
$$CF_3$$

(I)

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that consists in copolymerization between tetrafluoroethylene and a perfluorovinylic ether in a fluorated organic solvent medium, in the presence of a radical type starter with additional input of tetrafluoroethylene during the copolymerization process, characterized because before starting the copolymerization, a previously synthesized dispersion is introduced of the copolymer of tetrafluoroethylene and perfluorovinylic ether, in an organic solvent.

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Method according to claim 1 in which the previously synthesized dispersion
of the copolymer of tetrafluoroethylene and perfluorovinylic ether is
prepared in a perfluorated organic solvent in a proportion of 0.03 - 0.06%
of the liquid reagent mass.

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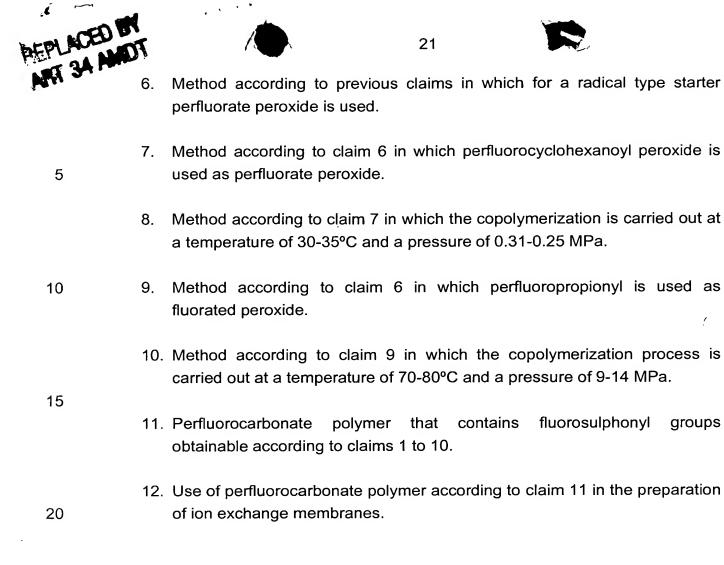
 Method according to claim 1 in which the previously synthesized dispersion of copolymer of tetrafluoroethylene and perfluorovinylic ether in the organic solvent presents a concentration of copolymer of between 10 and 20 % in mass of this solvent.

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4. Method according to the previous claims in which perfluorovinylic ether is perfluoride [4-methyl-3,6-dioxa-7-octene-1-fluorosulphonyl] (FC-141)

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5. Method according to the previous claims in which the organic solvent is 1,1,2-trichloro-1,2,2-trifluoroethane (freon-113).



according to claim 11.

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13. Ion exchange membrane that contains the perfluorocarbonate polymer